



STIC Search Report

EIC 2600

STIC Database Tracking Number: 106381

TO: Chirag G Shah
Location: PK2 3X04
Art Unit: 2664
Wednesday, October 22, 2003

Case Serial Number: 09/685762

From: Pamela Reynolds
Location: EIC 2600
PK2-3C03
Phone: 306-0255

Pamela.Reynolds@uspto.gov

Search Notes

Dear Chirag G Shah,

Please find attached the search results for 09/685762. I used the search strategy we discussed. I searched the standard Dialog files, and the internet.

If you would like a re-focus please let me know.

Thank you.

Pamela Reynolds



By Thurs
Mid day
(claim 51m)

23
Access DB# 106381

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Chirag Shah Examiner #: 74468 Date: 10/21/03
Art Unit: 2664 Phone Number 305-5634 Serial Number: 091685762
Mail Box and Bldg/Room Location: 3X04 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

Earliest Priority Filing Date: 10/9/00

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

see claim 1 class 5 softswitch
any data on this ↑ 10/9/2000

STAFF USE ONLY

Searcher: Pamela Myrland
Searcher Phone #: 306-0255
Searcher Location: PL2 3C03
Date Searcher Picked Up: 10-22-03
Date Completed: 10-22-03
Searcher Prep & Review Time: 2
Clerical Prep Time: _____
Online Time: 15

Type of Search

NA Sequence (#) _____
AA Sequence (#) _____
Structure (#) _____
Bibliographic ☒
Litigation _____
Fulltext ☒
Patent Family _____
Other _____

Vendors and cost where applicable

STN _____
Dialog ☒
Questel/Orbit _____
Dr.Link _____
Lexis/Nexis _____
Sequence Systems _____
WWW/Internet ☒
Other (specify) _____

File 348:EUROPEAN PATENTS 1978-2003/Oct W02

(c) 2003 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20031016,UT=20031009

(c) 2003 WIPO/Univentio

? ds

Set	Items	Description
S1	2	CLASS() (5 OR FIVE) ()SOFTSWITCH

1/5/1 (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2003 WIPO/Univentio. All rts. reserv.

00898560 **Image available**

SYSTEM AND METHOD FOR INTERFACING BETWEEN SIGNALING PROTOCOLS
SYSTEME ET PROCEDE PERMETTANT L'INTERFACAGE ENTRE DES PROTOCOLES DE
SIGNALISATION

Patent Applicant/Assignee:

GENERAL BANDWIDTH INC, 12303 B Technology Blvd., Austin, TX 78727, US, US
(Residence), US (Nationality)

Inventor(s):

PARHAM Eric S, 4610 Beechwood Hollow, Travis County, Austin, TX 78731, US

WILLIAMS Brian E, 1641 Montana Trail, Collin County, Plano, TX 75023, US,

CAREW A J Paul, 4518 Bull Creek Road, Austin, TX 78731, US,

WHITCHER Robert, 5017 Valburn Court, Travis County, Austin, TX 78731, US,

Legal Representative:

SHOWALTER Barton E (agent), Baker Botts L.L.P., 2001 Ross Avenue, Dallas,
TX 75201-2980, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200232154 A2-A3 20020418 (WO 0232154)

Application: WO 2001US42600 20011009 (PCT/WO US0142600)

Priority Application: US 2000685274 20001009

Designated States: AE AG AL AM AT (utility model) AU AZ BA BB BG BR BY BZ
CA CH CN CO CR CU CZ (utility model) DE (utility model) DK (utility
model) DM DZ EC EE (utility model) ES FI (utility model) GB GD GE GH GM
HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN
MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK (utility model) SL TJ TM TR
TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: H04Q-003/00

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 2512

English Abstract

A telecommunications network (10) includes a gateway (18) that receives signaling information in a media gateway and call session control format from a **Class 5 softswitch** (26). The gateway (18) converts the media gateway and call session control format to a broadband loop emulation service signaling protocol for transfer to integrated access devices (20) at a customer premises (22) through a broadband loop emulation services network (14). The gateway (18) also receives signal information in a broadband loop emulation service signaling protocol from the integrated access devices (20) at the customer premises (22) through the broadband loop emulation services network (14). The gateway (18) converts the broadband loop emulation service signaling protocol to the media gateway and call session control format for transfer to the **Class 5 softswitch** (26). The Class 5 softswitch (26) places the media gateway and call session control format into a network signal format for transfer over a signaling network (24).

20020418 A2 Without international search report and to be
republished upon receipt of that report.
Search Rpt 20020822 Late publication of international search report
Republication 20020822 A3 With international search report.
Examination 20021031 Request for preliminary examination prior to end of
19th month from priority date

1/5/2 (Item 2 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2003 WIPO/Univentio. All rts. reserv.

00897919 **Image available**

**SYSTEM AND METHOD FOR INTERFACING SIGNALING INFORMATION AND VOICE TRAFFIC
SYSTEME ET PROCEDE ASSURANT L'INTERFACE ENTRE DES INFORMATIONS DE
SIGNALISATION ET LE TRAFIC PHONIE**

Patent Applicant/Assignee:

GENERAL BANDWIDTH INC, 12303 B Technology Blvd., Austin, TX 78727, US, US
(Residence), US (Nationality)

Inventor(s):

PARHAM Eric S, 4610 Beechwood Hollow, Travis County, Austin, TX 78731, US

WILLIAMS Brian E, 1641 Montana Trail, Collin County, Plano, TX 75023, US,

CAREW Paul A J, 4518 Bull Creek Road, Austin, TX 78731, US,

WHITCHER Robert, 5017 Valburn Court, Travis County, Austin, TX 78731, US,

Legal Representative:

SHOWALTER Barton E (agent), Baker Botts L.L.P, 2001 Ross Avenue, Dallas,
TX 75201-2980, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200232153 A1 20020418 (WO 0232153)

Application: WO 2001US31644 20011009 (PCT/WO US0131644)

Priority Application: US 2000685762 20001009

Designated States: AE AG AL AM AT AT (utility model) AU AZ BA BB BG BR BY
BZ CA CH CN CO CR CU CZ CZ (utility model) DE DE (utility model) DK DK
(utility model) DM DZ EC EE EE (utility model) ES FI FI (utility model)
GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV
MA MD MG MK MN MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK SK (utility
model) SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: H04Q-003/00

International Patent Class: H04M-007/00

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 2700

English Abstract

A telecommunications network (10) includes a gateway (18) that receives
signaling information in a message based signaling format from a **Class
5 softswitch** (26). The gateway (18) also receives voice traffic over
an inter-machine trunk from a public switched telephone network (12). The
gateway (18) places the voice traffic into data packets. The gateway (18)
transfers the data packets and the signaling information to an Internet
Protocol network (30). The data packets and the signaling information may

File 2:INSPEC 1969-2003/Oct W2
 (c) 2003 Institution of Electrical Engineers
 File 6:NTIS 1964-2003/Oct W3
 (c) 2003 NTIS, Intl Cpyrght All Rights Res
 File 8:Ei Compendex(R) 1970-2003/Oct W2
 (c) 2003 Elsevier Eng. Info. Inc.
 File 34:SciSearch(R) Cited Ref Sci 1990-2003/Oct W2
 (c) 2003 Inst for Sci Info
 File 35:Dissertation Abs Online 1861-2003/Sep
 (c) 2003 ProQuest Info&Learning
 File 65:Inside Conferences 1993-2003/Oct W3
 (c) 2003 BLDSC all rts. reserv.
 File 94:JICST-EPlus 1985-2003/Oct W3
 (c)2003 Japan Science and Tech Corp(JST)
 File 95:TEME-Technology & Management 1989-2003/Oct W1
 (c) 2003 FIZ TECHNIK
 File 99:Wilson Appl. Sci & Tech Abs 1983-2003/Sep
 (c) 2003 The HW Wilson Co.
 File 144:Pascal 1973-2003/Oct W2
 (c) 2003 INIST/CNRS
 File 233:Internet & Personal Comp. Abs. 1981-2003/Jul
 (c) 2003, EBSCO Pub.
 File 239:Mathsci 1940-2003/Nov
 (c) 2003 American Mathematical Society
 File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
 (c) 1998 Inst for Sci Info
 File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
 (c) 2002 The Gale Group
 File 603:Newspaper Abstracts 1984-1988
 (c)2001 ProQuest Info&Learning
 File 483:Newspaper Abs Daily 1986-2003/Oct 20
 (c) 2003 ProQuest Info&Learning
 ? ds

Set	Items	Description
S1	0	CLASS() (5 OR FIVE) ()SOFTSWITCH
S2	0	CLASS() (5 OR FIVE) (3N)SOFTSWITCH

File 348:EUROPEAN PATENTS 1978-2003/Oct W02

(c) 2003 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20031016,UT=20031009

(c) 2003 WIPO/Univentio

? ds

Set	Items	Description
S1	2	CLASS() (5 OR FIVE) ()SOFTSWITCH

1/5/1 (Item 1 from file: 349)
DIALOG(R) File 349:PCT FULLTEXT
(c) 2003 WIPO/Univentio. All rts. reserv.

00898560 **Image available**

SYSTEM AND METHOD FOR INTERFACING BETWEEN SIGNALING PROTOCOLS
SYSTEME ET PROCEDE PERMETTANT L'INTERFACAGE ENTRE DES PROTOCOLES DE
SIGNALISATION

Patent Applicant/Assignee:

GENERAL BANDWIDTH INC, 12303 B Technology Blvd., Austin, TX 78727, US, US
(Residence), US (Nationality)

Inventor(s):

PARHAM Eric S, 4610 Beechwood Hollow, Travis County, Austin, TX 78731, US

WILLIAMS Brian E, 1641 Montana Trail, Collin County, Plano, TX 75023, US,

CAREW A J Paul, 4518 Bull Creek Road, Austin, TX 78731, US,

WHITCHER Robert, 5017 Valburn Court, Travis County, Austin, TX 78731, US,

Legal Representative:

SHOWALTER Barton E (agent), Baker Botts L.L.P., 2001 Ross Avenue, Dallas,
TX 75201-2980, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200232154 A2-A3 20020418 (WO 0232154)

Application: WO 2001US42600 20011009 (PCT/WO US0142600)

Priority Application: US 2000685274 20001009

Designated States: AE AG AL AM AT (utility model) AU AZ BA BB BG BR BY BZ
CA CH CN CO CR CU CZ (utility model) DE (utility model) DK (utility
model) DM DZ EC EE (utility model) ES FI (utility model) GB GD GE GH GM
HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN
MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK (utility model) SL TJ TM TR
TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: H04Q-003/00

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 2512

English Abstract

A telecommunications network (10) includes a gateway (18) that receives signaling information in a media gateway and call session control format from a **Class 5 softswitch** (26). The gateway (18) converts the media gateway and call session control format to a broadband loop emulation service signaling protocol for transfer to integrated access devices (20) at a customer premises (22) through a broadband loop emulation services network (14). The gateway (18) also receives signal information in a broadband loop emulation service signaling protocol from the integrated access devices (20) at the customer premises (22) through the broadband loop emulation services network (14). The gateway (18) converts the broadband loop emulation service signaling protocol to the media gateway and call session control format for transfer to the **Class 5 softswitch** (26). The Class 5 softswitch (26) places the media gateway and call session control format into a network signal format for transfer over a signaling network (24).

20020418 A2 Without international search report and to be
republished upon receipt of that report.
Search Rpt 20020822 Late publication of international search report
Republication 20020822 A3 With international search report.
Examination 20021031 Request for preliminary examination prior to end of
19th month from priority date

1/5/2 (Item 2 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2003 WIPO/Univentio. All rts. reserv.

00897919 **Image available**
SYSTEM AND METHOD FOR INTERFACING SIGNALING INFORMATION AND VOICE TRAFFIC
SYSTEME ET PROCEDE ASSURANT L'INTERFACE ENTRE DES INFORMATIONS DE
SIGNALISATION ET LE TRAFIC PHONIE

Patent Applicant/Assignee:

GENERAL BANDWIDTH INC, 12303 B Technology Blvd., Austin, TX 78727, US, US
(Residence), US (Nationality)

Inventor(s):

PARHAM Eric S, 4610 Beechwood Hollow, Travis County, Austin, TX 78731, US

WILLIAMS Brian E, 1641 Montana Trail, Collin County, Plano, TX 75023, US,

CAREW Paul A J, 4518 Bull Creek Road, Austin, TX 78731, US,

WHITCHER Robert, 5017 Valburn Court, Travis County, Austin, TX 78731, US,

Legal Representative:

SHOWALTER Barton E (agent), Baker Botts L.L.P, 2001 Ross Avenue, Dallas,
TX 75201-2980, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200232153 A1 20020418 (WO 0232153)

Application: WO 2001US31644 20011009 (PCT/WO US0131644)

Priority Application: US 2000685762 20001009

Designated States: AE AG AL AM AT AT (utility model) AU AZ BA BB BG BR BY
BZ CA CH CN CO CR CU CZ CZ (utility model) DE DE (utility model) DK DK
(utility model) DM DZ EC EE EE (utility model) ES FI FI (utility model)
GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV
MA MD MG MK MN MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK SK (utility
model) SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: H04Q-003/00

International Patent Class: H04M-007/00

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 2700

English Abstract

A telecommunications network (10) includes a gateway (18) that receives signaling information in a message based signaling format from a Class 5 softswitch (26). The gateway (18) also receives voice traffic over an inter-machine trunk from a public switched telephone network (12). The gateway (18) places the voice traffic into data packets. The gateway (18) transfers the data packets and the signaling information to an Internet Protocol network (30). The data packets and the signaling information may

File 344:Chinese Patents Abs Aug 1985-2003/Apr
(c) 2003 European Patent Office
File 347:JAPIO Oct 1976-2003/Jun(Updated 031006)
(c) 2003 JPO & JAPIO
File 348:EUROPEAN PATENTS 1978-2003/Oct W02
(c) 2003 European Patent Office
File 349:PCT FULLTEXT 1979-2002/UB=20031016,UT=20031009
(c) 2003 WIPO/Univentio
File 350:Derwent WPIX 1963-2003/UD,UM &UP=200367
(c) 2003 Thomson Derwent
? ds

Set	Items	Description
S1	895	AU=(PARHAM, E? OR WILLIAMS, B? OR CAREW, A? OR WHITCHER, R? OR PARHAM E? OR WILLIAMS B? OR CAREW A? OR WHITCHER R?)
S2	3	S1 AND SOFTSWITCH

2/5,K/1 (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2003 WIPO/Univentio. All rts. reserv.

00911818 **Image available**

**SYSTEM AND METHOD FOR COMMUNICATING TELECOMMUNICATION INFORMATION BETWEEN
AND A BROADBAND NETWORK AND A TELECOMMUNICATION NETWORK
SYSTEME ET PROCEDE DE COMMUNICATION D'INFORMATIONS DE TELECOMMUNICATION
ENTRE UN RESEAU A BANDE LARGE ET UN RESEAU DE TELECOMMUNICATION**

Patent Applicant/Assignee:

GENERAL BANDWIDTH INC, 12303 B Technology Boulevard, Austin, TX 78727, US
, US (Residence), US (Nationality)

Inventor(s):

CAREW A J Paul , 4518 Bull Creek Road, Austin, TX 78731, US,
MILLS Brendon W, 8213 Crabtree Drive, Austin, TX 78750, US

Legal Representative:

SHOWALTER Barton E (agent), Baker Botts L.L.P., Suite 600, 2001 Ross
Avenue, Dallas, TX 75201-2980, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200245368 A2-A3 20020606 (WO 0245368)

Application: WO 2001US44491 20011128 (PCT/WO US0144491)

Priority Application: US 2000724603 20001128; US 2000724714 20001128

Designated States: AE AG AL AM AT (utility model) AU AZ BA BB BG BR BY BZ
CA CH CN CO CR CU CZ (utility model) DE (utility model) DK (utility
model) DM DZ EC EE (utility model) ES FI (utility model) GB GD GE GH GM
HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN
MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK (utility model) SL TJ TM
TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: H04L-012/66

International Patent Class: H04L-012/28

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 16221

English Abstract

A system for communicating telecommunication information includes a memory packetization modules, and a telecommunication interface module. The memory stores subscriber profiles associating each of several subscribers with a telecommunication interface. The packetization modules receive data packets from a broadband network and extract telecommunication information associated with a subscriber from the data packets. The telecommunication interface module communicates the telecommunication information to a telecommunication network using a telecommunication interface associated with the subscriber.

French Abstract

L'invention concerne un systeme de communication d'informations de telecommunication comprenant des modules de mise en paquet de memoire et un module d'interface de telecommunication. La memoire stocke des profils d'abonne associant chaque abonne a une interface de telecommunication. Les modules de mise en paquet recoivent des paquets de donnees d'un reseau a bande large et extraient des informations de telecommunication associees a un abonne de paquets de donnees. Le module d'interface de telecommunication communique les informations de telecommunication a un

reseau de telecommunication au moyen d'une interface de telecommunication
associee a l'abonne.

Legal Status (Type, Date, Text)

Publication 20020606 A2 Without international search report and to be
republished upon receipt of that report.

Search Rpt 20020801 Late publication of international search report

Republication 20020801 A3 With international search report.

Republication 20020801 A3 Before the expiration of the time limit for
amending the claims and to be republished in the
event of the receipt of amendments.

Examination 20021121 Request for preliminary examination prior to end of
19th month from priority date

Inventor(s):

CAREW A J Paul ...

Fulltext Availability:

Detailed Description

Detailed Description

... a management device 19. Management device 19 may be a network
management system (NMS), a **softswitch**, or any other suitable device for
managing the operation of gateway 18 and may communicate...or a
management device 19. Management device may be a network management
system (NMS), a **softswitch**, or any other suitable device for managing
the operation of gateway 18 and may communicate...or a management device
19. Management device may be a network management system (NMS), a
softswitch, or any other suitable device for managing the operation of
gateway 18 and may communicate...

2/5,K/2 (Item 2 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

(c) 2003 WIPO/Univentio. All rts. reserv.

00898560 **Image available**

SYSTEM AND METHOD FOR INTERFACING BETWEEN SIGNALING PROTOCOLS

**SYSTEME ET PROCEDE PERMETTANT L'INTERFACAGE ENTRE DES PROTOCOLES DE
SIGNALISATION**

Patent Applicant/Assignee:

GENERAL BANDWIDTH INC, 12303 B Technology Blvd., Austin, TX 78727, US, US
(Residence), US (Nationality)

Inventor(s):

PARHAM Eric S , 4610 Beechwood Hollow, Travis County, Austin, TX 78731,
US,

WILLIAMS Brian E , 1641 Montana Trail, Collin County, Plano, TX 75023,
US,

CAREW A J Paul , 4518 Bull Creek Road, Austin, TX 78731, US,

WHITCHER Robert , 5017 Valburn Court, Travis County, Austin, TX 78731,
US

Legal Representative:

SHOWALTER Barton E (agent), Baker Botts L.L.P., 2001 Ross Avenue, Dallas,
TX 75201-2980, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200232154 A2-A3 20020418 (WO 0232154)

Application: WO 2001US42600 20011009 (PCT/WO US0142600)

Priority Application: US 2000685274 20001009

Designated States: AE AG AL AM AT (utility model) AU AZ BA BB BG BR BY BZ
CA CH CN CO CR CU CZ (utility model) DE (utility model) DK (utility
model) DM DZ EC EE (utility model) ES FI (utility model) GB GD GE GH GM

HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN
MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK (utility model) SL TJ TM TR
TT TZ UA UG UZ VN YU ZA ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: H04Q-003/00

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 2512

English Abstract

A telecommunications network (10) includes a gateway (18) that receives signaling information in a media gateway and call session control format from a Class 5 **softswitch** (26). The gateway (18) converts the media gateway and call session control format to a broadband loop emulation service signaling protocol for transfer to integrated access devices (20) at a customer premises (22) through a broadband loop emulation services network (14). The gateway (18) also receives signal information in a broadband loop emulation service signaling protocol from the integrated access devices (20) at the customer premises (22) through the broadband loop emulation services network (14). The gateway (18) converts the broadband loop emulation service signaling protocol to the media gateway and call session control format for transfer to the Class 5 **softswitch** (26). The Class 5 softswitch (26) places the media gateway and call session control format into a network signal format for transfer over a signaling network (24).

French Abstract

L'invention se rapporte a un reseau de telecommunication (10) comprenant une passerelle (18) qui recoit des informations de signalisation dans un format de controle de session d'appel et de passerelle de media de la part d'un commutateur logiciel (26) de classe 5. La passerelle (18) convertit le format de controle de la session d'appel et de passerelle de media en un protocole de signalisation de service d'emulation de boucle de transmission a large bande en vue du transfert vers des dispositifs d'accès integre (20) situes chez l'abonne par l'intermediaire d'un reseau (14) de services d'emulation de boucle de transmission a large bande. La passerelle (18) recoit egalement des informations de signalisation dans un protocole de signalisation de service d'emulation de boucle de transmission a large bande en provenance de dispositifs (20) d'accès integre situes chez l'abonne (22) par l'intermediaire du reseau (14) de services d'emulation de boucle de transmission a large bande. La passerelle (18) convertit le protocole de signalisation de service d'emulation de boucle de transmission a large bande aux fins d'obtention du format de controle de session d'appel et de passerelle de media pour le transfert vers le commutateur logiciel (26) de classe 5. Ce commutateur logiciel (26) de classe 5 transforme le format de controle de session d'appel et de passerelle de media en un format de signalisation de reseau en vue du transfert sur un reseau de signalisation (24).

Legal Status (Type, Date, Text)

Publication 20020418 A2 Without international search report and to be republished upon receipt of that report.

Search Rpt 20020822 Late publication of international search report

Republication 20020822 A3 With international search report.

Examination 20021031 Request for preliminary examination prior to end of

...5

softsw@tch in the media gateway and call session control format, the Class 5 **softswitch** operable to convert the media gateway and call session control format to the network signaling...

2/5,K/3 (Item 3 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

(c) 2003 WIPO/Univentio. All rts. reserv.

00897919 **Image available**

**SYSTEM AND METHOD FOR INTERFACING SIGNALING INFORMATION AND VOICE TRAFFIC
SYSTEME ET PROCEDE ASSURANT L'INTERFACE ENTRE DES INFORMATIONS DE
SIGNALISATION ET LE TRAFIC PHONIE**

Patent Applicant/Assignee:

GENERAL BANDWIDTH INC, 12303 B Technology Blvd., Austin, TX 78727, US, US
(Residence), US (Nationality)

Inventor(s):

PARHAM Eric S , 4610 Beechwood Hollow, Travis County, Austin, TX 78731,
US,

WILLIAMS Brian E , 1641 Montana Trail, Collin County, Plano, TX 75023,
US,

CAREW Paul A J, 4518 Bull Creek Road, Austin, TX 78731, US,

WHITCHER Robert , 5017 Valburn Court, Travis County, Austin, TX 78731,
US

Legal Representative:

SHOWALTER Barton E (agent), Baker Botts L.L.P, 2001 Ross Avenue, Dallas,
TX 75201-2980, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200232153 A1 20020418 (WO 0232153)

Application: WO 2001US31644 20011009 (PCT/WO US0131644)

Priority Application: US 2000685762 20001009

Designated States: AE AG AL AM AT AT (utility model) AU AZ BA BB BG BR BY
BZ CA CH CN CO CR CU CZ CZ (utility model) DE DE (utility model) DK DK
(utility model) DM DZ EC EE EE (utility model) ES FI FI (utility model)
GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV
MA MD MG MK MN MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK SK (utility
model) SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: H04Q-003/00

International Patent Class: H04M-007/00

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 2700

English Abstract

A telecommunications network (10) includes a gateway (18) that receives signaling information in a message based signaling format from a Class 5 **softswitch** (26). The gateway (18) also receives voice traffic over an inter-machine trunk from a public switched telephone network (12). The gateway (18) places the voice traffic into data packets. The gateway (18) transfers the data packets and the signaling information to an Internet Protocol network (30). The data packets and the signaling information may



Corporate Products Applications News/Events Customer Svc Contact

News/Events:

» Hot News & Latest Events

» Press Releases

» In the News

» Events



**General Bandwidth and Syndeo Demonstrating Softswitched Calls over Fiber to the Premises Network
SUPERCOMM 2003
Wednesday, May 28, 2003**

Latest G6® Next Generation Network Software Supports Interoperability with Leading and Call Management Servers

Austin, TX – May 28, 2003 – General Bandwidth, a leading telecommunications equipment provider enable deliver enhanced voice services over broadband networks, will be demonstrating softswitch-based voice over services over Fiber to the Premises (FTTP) solutions at SUPERCOMM 2003 in Atlanta, Georgia (Booth #21

Powered by General Bandwidth's latest G6® Next Generation Network (NGN) software release, the G6 Pac Migration Platform will be supporting VoIP services over FTTP solutions using the Syndeo Syion™ 426 so unique, non-cable environment. Softswitches are the backbone of packet-based telephony networks, provide control, signaling, and routing instructions that touch almost every network element. One of only two softsw recently gained qualification status for PacketCable™ at CableLabs, the Syndeo Syion 426 is a carrier-grade featured CLASS 5/Local Exchange softswitch and services platform that delivers an extensive suite of revenue features across any combination of access networks. The G6 platform, which enables softswitched voice call connected to traditional circuit-based networks, serves as a trunking media gateway for the Syndeo softswitch demonstration. <?xml:namespace prefix = o ns = "urn:schemas-microsoft-com:office:office" />

Prior to this new software release, the General Bandwidth G6 platform has been used extensively by both domestic international carriers as a circuit-to-packet gateway for "Class 5-derived" Voice over FTTx/PON, Cable, and T1/DSL services. With the G6 NGN software, the G6 platform can serve as both a Class 5-derived and trunk gateway providing a seamless migration of voice services from a single carrier class, NEBS Level 3 certified. With the platform's ability to simultaneously support calls from legacy Class 5 switches using GR-303/TR-0 interfaces as well as next generation softswitches using TGCP signaling, carriers

can finally bridge the gap between legacy circuit networks and packet networks while maintaining lower capital operation expenditures and ensuring the evolution of their networks in support of next generation services. the overall migration path toward an all packet-based voice network, General Bandwidth is also developing the G6 platform in support of reverse GR-303 gateway functionality providing a Digital Loop Carrier (DLC) in later half of 2003. The G6 platform's DLC proxy will allow carriers to use softswitch technology on their loop carriers, creating an economical migration path to packet-based voice without stranding their capital investment at the edge of their network.

In addition to support for primary line Class 5 services via a softswitch, the G6 platform can also be used in conjunction with a SIP-based feature server to provide exciting new IP Centrex features such as advanced call screening, call forwarding, and dialing from directories, in addition to standard traditional Centrex features. With the G6 platform, carriers will finally have a truly carrier-grade, scalable platform from which to launch hosted communication services such as IP Centrex.

"Voice providers are caught in a vise between increasing competition on one hand and older generation equipment on the other," said Brendon Mills, CEO of General Bandwidth. "Using the G6 platform with our new NGN software, carriers can immediately grow revenues and generate cost savings using their current networks with the assurance that they can easily migrate to new, packet-based services as they become available within their network. Carriers need a compelling platform to acquire or win-back customers and provide IP Centrex and new softswitch-based features at a broad scale to the mass markets."

With the ability to support 240 to 3360 ports per chassis, the G6 platform is "right-sized" for large and small

deployments. The G6 platform offers 99.999% availability and meets or exceeds the most stringent requirements in central office environments, including NEBS Level 3 certification, as well as passing all ILEC extended NEBS certification tests.

About Syndeo

Syndeo Corporation was formed in 1999 to empower communications providers like cable operators to drive value over their next-generation converged networks by offering VoIP (voice-over-IP) services. The company's Call Management Server combines revenue-generating features with a carrier-grade softswitch platform that can serve large numbers of subscribers. Syndeo has raised \$98 million to date from a consortium of cable operators and financial investors. The company gained ISO 9001 Quality System Standard certification in March 2000. For more information, call 408-861-1000 or visit Syndeo's web site at www.syndeocorp.com.

About General Bandwidth

General Bandwidth Inc. is a TL 9000 certified, leading developer of telecommunications equipment that is a part of the build-out of the new voice infrastructure. General Bandwidth is focused exclusively on developing solutions that exceed the stringent requirements of large and small carriers. General Bandwidth's flagship G6[®] Packet Telemigration Platform enables service providers to deploy voice over broadband technology to cost effectively provide services over their existing broadband infrastructure, to better utilize their existing resources by efficiently accessing network traffic, and to provide a migration path to end-to-end packet networks.

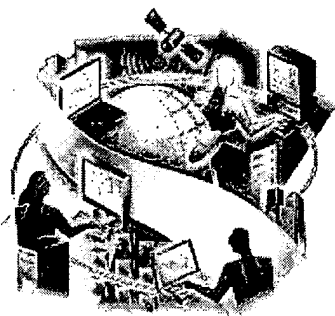
Founded in 1999, General Bandwidth is located at 12303 Technology Blvd., Austin, Texas 78727; phone: 512/681-5401; fax: 512/681-5401; toll free: 877/818-2160; www.genband.com

CONTACT:
General Bandwidth
Tabitha Bailey
+1.805.241.2532
Tabitha.Bailey@genband.com

###

Trademark notes: G6 and General Bandwidth are registered trademarks of General Bandwidth.

[Legal](#) [Site Map](#)



Tom Sheldon's

LinktionaryTM.com

Networking Defined and Hyperlinked

Featured Sites and Sponsors

GoogleTM

Internet Society



Internet FAQ Consortium

Best Computer Books.com

Certification Training Books



Site home page
(news and notices)

Softswitch

Get alerts when Linktionary
is updated

[Related Entries](#) [Web Links](#) [New/Updated Information](#)

Book updates and
addendums

Search Linktionary (powered by FreeFind)

Note: Many topics at this site are reduced versions of the text in "The Encyclopedia of Networking and Telecommunications." Search results will not be as extensive as a search of the book's CD-ROM.

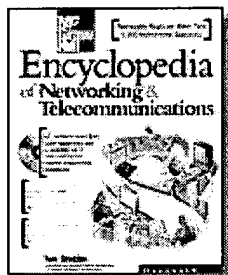
Softswitch refers to an architecture for a device that supports the integration of IP telephony and the PSTN. In the NPN, the traditional circuit-switched voice network will slowly give way to a packet-oriented voice and data network based on Internet technology. See "[NPN](#) (New Public Network)."

Softswitches are an alternative form of Class 5 switch. A Class 5 switch is a big expensive telephony switch, located in central offices all over the world. It accepts dial-up telephone calls from users and creates circuits across a hierarchy of telephone switches, some local, and some regional, national, or international. Call setup and management is handled by SS7 (Signaling System 7), which runs as an out-of-band signaling protocol to control PSTN switching equipment. See "[Telecommunications and Telephone Systems](#)" for more details about this system.

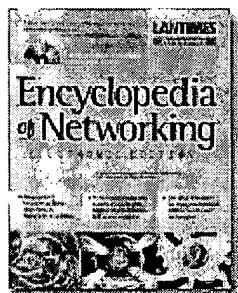
Proponents of the convergence of voice and data on an all-packet network point out the superiority of the packet model. Bandwidth and QoS to support voice are quickly becoming a reality in the Internet. However, the PSTN and the Internet will coexist for some time and there will be a need for integration. For example, until convergence is complete, IP telephone users will no doubt want to connect with a PSTN telephone user, and vice versa. This means that Internet protocol devices will need to talk to SS7 devices, and vice versa. That calls for a gateway.

Proponents of convergence also point out the inflexibility of the traditional telephone switch. Wrapped up in one big device are switching, call setup and management features, and application-level calling features like caller ID and call waiting. This model has made it very difficult for the telephone company to add new features. The convergence proponents replace the Class 5 switch with a "softswitch architecture" that has these components:

- **Media gateway** The media gateway is just the switch portion of the Class 5 switch. Switching technology has advanced tremendously over the past few years, and vendors can easily produce inexpensive media gateways that can handle many more calls in a smaller size than Class 5 switches.



Get info about the
[Encyclopedia of Networking
and Telecommunications, 3rd
edition \(2001\)](#)



Download the electronic
version of the [Encyclopedia
of Networking, 2nd edition](#)

of Networking, 2nd edition
(1996). It's free!

[Contribute to this site](#)

[Electronic licensing info](#)

smaller size than Class 5 switches.

- **Media gateway controller** This component runs the call control and application-level calling features in a server that supports easy software upgrades and expansion of features. The media gateway translates between circuit-switched voice traffic and packet-based traffic. It is also called the "call agent" and it controls the media gateway.

The media gateway is a relatively inexpensive "dumb box" that translates packets into circuits and circuits into packets. As such, the media gateway has become a commodity item and is appearing in rack-mounted systems at carrier POPs that support co-location. In contrast, the media gateway controller holds all the intelligence. It supports the integration of SS7 and Internet protocols, and maintains information about traffic flows that can be used for billing purposes.

Since the media gateway and the media gateway controller are separated, a protocol is needed that allows the media gateway controller to control the media gateway. In 1999, the IETF and the ITU formally agreed to work on a single protocol, which is known as Megaco/H.248. The ITU has largely taken over this development as H.248. This is discussed further under "[Voice over IP \(VoIP\)](#)." A related protocol is SIP (Session Initiation Protocol), an application layer control protocol for setting up, maintaining, and terminating voice and videoconferencing sessions. It allows different media gateway controllers to communicate and allows end users to request services from media gateway controllers. See "[SIP \(Session Initiation Protocol\)](#)."

An example softswitch is the Alcatel 1000, which is designed to support the gradual migration from voice-centric to data-centric environments. It provides the brains for a converged voice and data network, handles call setup and establishes control paths, controls the trunking gateways that convert TDM signals (PSTN voice calls) to voice over IP, and supports all services in the existing PSTN IN (Intelligent Network).

The Softswitch Consortium Web site has a list of product vendors. This topic continues under "[Voice over IP \(VoIP\)](#)." A full set of Web links is also located under that topic. Also see "[Voice/Data Networks](#)."

The IETF PINT Working Group has addressed the arrangement through which Internet applications can request PSTN services. The IETF SPIRITS (Service in the PSTN/IN Requesting InTernet Service) Working Group has addressed the opposite arrangement in which PSTN users request services that require an interaction between the PSTN and the Internet. Some examples covered by SPIRITS include Internet call waiting, Internet caller-ID delivery, and Internet call forwarding. See "[SPIRITS \(Service in the PSTN/IN Requesting InTernet Service\)](#)" and "[PINT \(PSTN and Internet Internetworking\)](#)" for more information.

Copyright (c) 2001 Tom Sheldon and Big Sur Multimedia.
All rights reserved under Pan American and International copyright conventions.

